1994 Silvicultural Activities Report

Compiled from the 1994 Landowner Reports

Data collected under the provisions of Title 12 MRSA §8885

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1994 Silvicultural Activities Report

The information contained in this report represents forest management activities that occurred between January 1 and December 31, 1994 according to forest landowner reports filed with the Maine Forest Service (MFS) in 1995.

All landowners who conduct a timber harvesting operation must file an *Intent to Harvest Commercial Forest Products* (notification) before beginning the operation. Following receipt of the notification each landowner is sent a form on which to report their management activities. Return rate on these reports for 1994 was 95%.

Graphs representing forest activities are included with this report. Prior to 1990 landowners were not required to file a notification; therefore, there was a significant underreporting of activities. Keep this in mind when comparing activities before 1990 to those from 1990 and later years. The information from 1990 onward is more reliable.

Activities in the forest affect everyone. These activities supply resources to build homes, provide furniture, supply paper products, provide wildlife habitat and recreation, and protect valuable soils and clean water.

Notes & Definitions

□ Forestland Ownership

- Forest industry. Land owned by a forest products industry; usually most of the wood harvested is used by that industry.
- Private. Private ownership but NOT by a forest industry. This includes lands of other industries that are not forest industries.
- Other. Lands owned by a government entity municipal, county, or state, quasi-public lands, etc.
- ☐ Timber Stand Improvement. <u>Timber Stand</u>
 <u>Improvement</u> (TSI) "TSI" is pre-commercial thinning or
 weeding of young stands to improve the growing conditions
 for the residual crop. In a TSI procedure there is no, or very
 few, commercial forest products harvested. This report
 shows the number of acres thinned or weeded using
 mechanical means (saws, axes, etc.).
- □ Change of (land) Use Change of land use for a particular area means that following timber harvesting the subsequent use does not include growing forest products. Such change of use includes but is not limited to the following: farm pasture, site for growing agricultural crops, residential dwelling unit, development site. The division of forestland into smaller units does not by itself automatically constitute a change of land use.

□ Forest products means logs, pulpwood, veneer, boltwood, wood chips, stud wood, poles, pilings, biomass fuelwood, fuelwood or other products commonly known as forest products, but does not include Christmas trees, maple syrup, nursery products used for ornamental purposes, wreaths, bough material, cones or other seed crops.

☐ Types of harvest

- Partial harvest. All harvest systems except clearcut harvest.
 - *Selection system. A selection cutting system is a method where trees are removed individually, here and there, from a harvest site. In the case where all trees above a specified diameter are harvested (diameter limit) the acreage is recorded on this line.
 - *Shelterwood system. A shelterwood cutting system is a method of harvesting mature timber from a forest site in two or more stages. The first stage removes only a portion of the trees to allow regeneration to become established before the remaining trees are removed in subsequent harvests.
- Clearcut harvest. Clear-cut means any timber harvesting on a forested site greater than 5 acres in size which, over a 10 year, period results in an average residual basal area of trees over 6 inches in diameter of less than 30 square feet per acre, unless one or both of the following conditions exist: A. If, after harvesting, the average residual basal area of trees over 1 inch in diameter measured at 4.5 feet above the ground is 30 square feet per acre or more, a clear-cut does not occur until the average residual basal area of trees 6 inches or larger measured at 4.5 feet above the ground is less than 10 square feet per acre; or B. After harvesting, the site has a well-distributed stand of trees at least 5 feet in height, that meets the regeneration standards applicable under 12 MRSA, c. 805, §8869, subsection 1.

Highlights

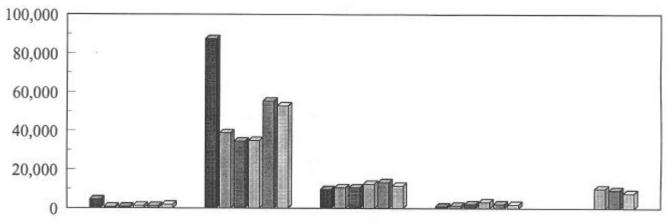
	The total area harvested increased by 12%, from 449,996 acres in 1993 to 504,592 acres in 1994. The total area
_	clearcut increased by 5% while partial cuts increased by 13%. There was an 11% increase in supervision by a forester. The use of herbicides to release competing vegetation
	decreased from 55,385 acres (in 1993) to 52,939 acres (in 1994) – a decrease of 4%. Herbicide used for site preparation increased by 610 acres.
	Mechanical thinning – using saws and axes – decreased by 13%.
	Land Use Conversion – changing from a forest to some other primary land use – decreased by 12%.
	Tree planting as reported here, is only from those owners who filed a landowner report. Plantings done on locations where the plantation owner harvested no wood are not required to be reported.

1994 Report on Silvicultural and Harvesting Practices

-			994		1993 (Cor	
	1-1000	Acreage clas 1001-5000	5000+	Total 1994	Total 1993	%change 1993-1994
Forestland Ownership:	Numbe	r of Repor	ts			
Forest Industry	14	12	464	490	526	-7%
Private	3,304	171	266	3,741	3,530	6%
Other	32	5	74	111	134	-17%
Total	3,350	188	804	4,342	4,190	4%
Forest Industry	0.42%	6.38%	57.71%	11%		
Private	98.63%	90.96%	33.08%	86%		
Other	0.96%	2.66% 100%	9.20%	3% 100%		
			TURNAL HEAD	TOOM	DATE THE COST- AND CO	al control of the
Non-Harvesting Activiti	es (acre	es)		TORILLIII.	III. III. AT A THE STREET	SULTER STATE
Timber Stand Improvement (Elomori		USRISEDISTIES	URIDIDE
TSI Mechanical	4,042	105	7,504	11,651	13,385	-13%
Herbicide Treatments	DESCRIPTION	TERRITOR CHIEF LAND		Ball Control of	191120120120	
Site Preparation	37	2	1,911	1,950	1,340	46%
Release	132		52,806	52,939	55,385	-4%
Total	169		54,717	54,889	56,725	-3%
	0.31%	0.01%	99.69%	100%	STATUS LOWSCOUT TO STATE OF ST	
Tree Planting (AS REPORTED ON LANDOWNER REPORTS ONLY)	343	13	7,469	7,825	9,382	-17%
Land Use Conversion		III SERVERES P. R.	en pentapos	DESGREES	REDICTORS	unic pur nuc
Change to other use	1,664	105	175	1,944	2,201	-12%
Harvesting Activities (a	cres)					
Partial Cut Methods		RESIDENCE		15310-706	BH2THE	THE LINE
Shelterwood cuts	9,948	4,018	83,688	97,654	75,267	30%
Selection cuts	118,504		212,652	353,176	323,476	9%
	400 450	00.000	000 040	450.000	200 742	100
Total Acres	128,452 28%		296,340 66%	450,830 100%	398,743	13%
Clearcutting Methods	HEIRER			WHILE SHE	PERSONAL PROPERTY.	
Total acres	3,255 6%		47.819 89%	53,762 100%	51,253	5%
Total partial and clearcut har	vest, by ac	res	e driches		1-81-81-81-9	MOUNTER
Total Acres	131,707 26%		344,159 68%	504.592 100%	449,996	12%
Distribution of partial and cle	arcut, by po	ercentage	DV HEEST	DESCRIPTION OF THE PARTY OF THE	Branch Specific	NUMBER OF
Destin) and mathe de-	98%	91%	86%	89%		
Partial cut methods Clearcut methods			14%	11%		
Total	-		100%	100%		
1000	10070	10070	10070	10070		3
			Carrette continue	Sevilate de hatt	S-127114-5-100-1404]
Forester Supervision (a	acres)				Marie	
Amount of total harvest	223/10	3,7622			1211212	123.2
supervised by Forester % Forester supervision	57,775 44%		329,268 96%	408.399 81%	367,322	11%

Silvicultural Trends

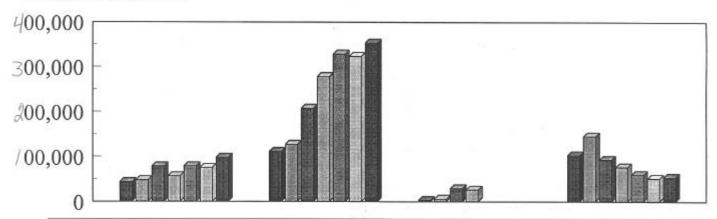
acres of forestland



-616	Site Prep. Chem.	Chem. Release	Mech. Release	Land Conversion	Tree Planting
1989	4,489	87,481	9,720	990	
1990	776	38,939	10,754	1,447	
1991	895	34,690	10,747	2,155	
1992	1,342	34,962	12,636	3,296	10,109
1993	1,340	55,385	13,385	2,201	9,382
1994	1,950	52,939	11,651	1,944	7,825

Harvesting Trends

acres of forestland



Year	Shelterwood cut	Selection Cut	All Other	Clearcut
1988	43,650	111,472	3,276	102,932
1989	47,781	127,120	5,799	145,357
1990	78,558	207,706	29,127	93,259
1991	56,530	278,141	25,949	76,672
1992	78,888	328,488		59,602
1993	75,267	323,476		51,253
1994	97,654	353,176		53,762